

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:
Smart Medical Systems Ltd.
10 Hayetsira Street
43663 Ra'anana
Israel

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Applicant's or agent's file reference 67777	Date of mailing <i>(day/month/year)</i> 1 SEP 2009
International application No. PCT/IL 09/00322	International filing date <i>(day/month/year)</i> 23 March 2009 (23.03.2009)
Applicant SMART MEDICAL SYSTEMS LTD.	

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: +41 22 338 8270

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.

3. ☐ **With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:**

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. **Reminders**

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of **30 months** from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until **30 months** from the priority date (in some Offices even later); otherwise, the applicant must, within **20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: <p style="text-align: center;">Lee W. Young</p> PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774
---	--

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 67777	<div style="display: flex; justify-content: space-between;"> <div> FOR FURTHER ACTION </div> <div> see Form PCT/ISA/220 as well as, where applicable, item 5 below. </div> </div>	
International application No. PCT/IL 09/00322	International filing date (<i>day/month/year</i>) 23 March 2009 (23.03.2009)	(Earliest) Priority Date (<i>day/month/year</i>) 31 March 2008 (31.03.2008)
Applicant SMART MEDICAL SYSTEMS LTD.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 4 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed.
☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

b. ☐ This international search report has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☒ Certain claims were found unsearchable (see Box No. II).

3. ☒ Unity of invention is lacking (see Box No. III).

4. With regard to the title,

- ☒ the text is approved as submitted by the applicant.
☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

- ☒ the text is approved as submitted by the applicant.
☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 1
- ☒ as suggested by the applicant.
☐ as selected by this Authority, because the applicant failed to suggest a figure.
☐ as selected by this Authority, because this figure better characterizes the invention.
- b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL 09/00322

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☒ Claims Nos.: 4-9, 17, 22, 23, 30-32
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

--- Please see supplemental Sheet ----

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-3, 10-13

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☒ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/IL 09/00322

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A61B 1/012 (2009.01)

USPC - 600/121

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC(8) - A61B 1/012 (2009.01)

USPC - 600/121

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

600/101, 116

A61B 1/00 (2009.01)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST(USPT,PGPB,EPAB,JPAB); Google Scholar;

Search Terms Used: endoscope, catheter, elongate member, tubular member, mount\$, install\$, manufactur\$, assemb\$, balloon, resilient member, expans\$, sheath, cover

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/0125005 A1 (FUJIKURA) 09 June 2005 (09.06.2005) Entire document, especially para[0041]-[0048], para[0072] and FIGS. 4A-4D, 9 and 14-15.	10-12, 13/(10), 13/(11,12)
Y		1-3
Y	US 4,646,988 A (CAMPBELL) 03 March 1987 (03.03.1987) Entire document, especially col 2, ln 59 - col 3, ln 50 and FIGS. 1, 3.	1-3



Further documents are listed in the continuation of Box C.



* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

21 August 2009 (21.08.2009)

Date of mailing of the international search report

1 SEP 2009

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US, Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450
Facsimile No. 571-273-3201

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300
PCT O&P: 571-272-7774

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/IL 09/00322

Continuation of Bon No. III; Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Group I: claims 1-3, 10-13 directed to an expander device

Group II: claims 14-16, 18 directed to a collar cutting tool

Group III: claims 19-21, 24-26 directed to a double balloon assembly

Group IV: claims 27-29, 33-39 directed to a wrap around accessory

The groups of inventions above do not related to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature of the Group I claims is a chassis element that engages a resilient tubular article, which is not present in the claims of Groups II-IV.

The special technical feature of the Group II claims is a cutting edge for cutting a collar, which is not present in the claims of Groups I or III-IV.

The special technical feature of the Group III claims is a forward and rear balloon, which is not present in the claims of Groups I-II or IV.

The special technical feature of the Group IV claims is an asseccory which wraps around the endoscope with a slit, which is not present in the claims of Groups I-III.

Therefore, the listed inventions lack unity of invention under PCT Rule 13 because they do not share a same or corresponding special technical feature.

Claims 4-9, 17, 22, 23, 30-32 are improper multiple dependent claims not in compliance with PCT Rule 6.4 (a).

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:
Smart Medical Systems Ltd.
10 Hayetsira Street
43663 Ra'anana
Israel

Date of mailing
(day/month/year)

1 SEP 2009

Applicant's or agent's file reference
67777

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/IL 09/00322

International filing date (day/month/year)

23 March 2009 (23.03.2009)

Priority date (day/month/year)

31 March 2008 (31.03.2008)

International Parent Classification (IPC) or both national classification and IPC

IPC(8) - A61B 1/012 (2009.01)

USPC - 600/121

Applicant **SMART MEDICAL SYSTEMS LTD.**

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☒ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☒ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450, Alexandria, Virginia 22313-1450
Facsimile No. 571-273-3201

Date of completion of this opinion

21 August 2009 (21.08.2009)

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IL 09/00322

Box No. 1 Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:
 - ☒ the international application in the language in which it was filed.
 - ☐ a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. ☐ This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))
3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been established on the basis of:
 - a. type of material
 - ☐ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material
 - ☐ on paper
 - ☐ in electronic form
 - c. time of filing/furnishing
 - ☐ contained in the international application as filed
 - ☐ filed together with the international application in electronic form
 - ☐ furnished subsequently to this Authority for the purposes of search
4. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IL 09/00322

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of

☐ the entire international application

☒ claims Nos. 4-9, 17, 22, 23, 30-32

because:

☐ the said international application, or the said claims Nos. _____ relate to the following subject matter which does not require an international search (*specify*):

☒ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. 4-9, 17, 22, 23, 30-32 are so unclear that no meaningful opinion could be formed (*specify*):

Claims 4-9, 17, 22, 23, 30-32 are improper multiple dependent claims not in compliance with PCT Rule 6.4 (a).

☐ the claims, or said claims Nos. _____ are so inadequately supported by the description that no meaningful opinion could be formed (*specify*):

☒ no international search report has been established for said claims Nos. 4-9, 17, 22, 23, 30-32

☐ a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:

☐ furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.

☐ furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.

☐ pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rule 13ter.1(a) or (b).

☐ a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.

☐ the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.

☐ See Supplemental Box for further details.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IL 09/00322

Box No. IV Lack of unity of invention

1. ☒ In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit:
- ☐ paid additional fees
 - ☐ paid additional fees under protest and, where applicable, the protest fee
 - ☐ paid additional fees under protest but the applicable protest fee was not paid
 - ☒ not paid additional fees
2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
- ☐ complied with
 - ☒ not complied with for the following reasons:

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Group I: claims 1-3, 10-13 directed to an expander device

Group II: claims 14-16, 18 directed to a collar cutting tool

Group III: claims 19-21, 24-26 directed to a double balloon assembly

Group IV: claims 27-29, 33-39 directed to a wrap around accessory

The groups of inventions above do not related to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature of the Group I claims is a chassis element that engages a resilient tubular article, which is not present in the claims of Groups II-IV.

The special technical feature of the Group II claims is a cutting edge for cutting a collar, which is not present in the claims of Groups I or III-IV.

The special technical feature of the Group III claims is a forward and rear balloon, which is not present in the claims of Groups I-II or IV.

The special technical feature of the Group IV claims is an accessory which wraps around the endoscope with a slit, which is not present in the claims of Groups I-III.

Therefore, the listed inventions lack unity of invention under PCT Rule 13 because they do not share a same or corresponding special technical feature.

4. Consequently, this opinion has been established in respect of the following parts of the international application:
- ☐ all parts
 - ☒ the parts relating to claims Nos. 1-3, 10-13

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/IL 09/00322

Box No. V Reasoned statement under Rule 43b(1)(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-3, 11-12, 13/(11-12)	YES
	Claims	10, 13/(10)	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-3, 10-12, 13/(10-12)	NO
Industrial applicability (IA)	Claims	1-3, 10-12, 13/(10-12)	YES
	Claims	None	NO

2. Citations and explanations:

Claims 10 and 13/(10) lack novelty under PCT Article 33(2) as being anticipated by US 2005/0125005 A1 to (Fujikura).

As per claim 10, Fujikura describes a method for mounting a resilient outer tubular article over an elongate article (para[0041]) comprising:
employing an expander (10; FIGS. 4) comprising:
a chassis element (16) which is selectably engageable with at least one resilient portion of said resilient outer tubular article (12, para[0042]);
a driver (14) which is movable with respect to said chassis (FIGS. 4);
an engagement element (18) configured to accommodate at least a portion of said elongate article (14),
to carry out the following functions:
expanding said at least one resilient portion (12A) of said resilient outer tubular article (12, FIG. 4A, para[0042]);
followed by insertion of said engagement element (18) into said at least one resilient portion (FIG. 4B, para[0043]);
followed by engagement of said elongate article (14) with said engagement element (FIG. 4C, para[0047]);
followed by disengagement of said engagement element from said at least one resilient portion (FIG. 4D, para[0048]).

As per claim 13/10, Fujikura describes a method of mounting a resilient outer tubular article over an elongate article according to claim 10, and wherein said disengagement of said engagement element from said at least one resilient portion includes sliding said engagement element relative to said at least one resilient portion (FIG. 4D, para[0048]: Note device must be slid out).

Claims 11-12 and 13/(11,12) lack an inventive step under PCT Article 33(3) as being obvious over Fujikura.

As per claim 11, Fujikura describes the method of mounting a resilient outer tubular article over an elongate article according to claim 10, but fails to describe and also comprising following said insertion of said engagement element into said at least one resilient portion, and prior to engagement of said elongate article with said engagement element, the step of disengagement of said engagement element from the remainder of said expander.
However, Fujikura describes disengagement of said engagement element from the user's hand (FIGS. 4B-4C).
It would have been obvious to one skilled in the art to utilize a common tool such as forceps, or to make a custom tool as part of the expander, so as to create a removable engagement element and remainder of expander device as this would decrease contamination possibilities relative to the user manipulating the device with his hands.

As per claim 12, Fujikura describes the method of mounting a resilient outer tubular article over an elongate article according to claim 11, but fails to describe and also comprising, following said engagement of said elongate article with said engagement element, and prior to said disengagement of said engagement element from said at least one resilient portion, the step of engagement of said engagement element with the remainder of said expander.
However, Fujikura describes engagement of said engagement element from the user's hand (FIGS. 4D).
It would have been obvious to one skilled in the art to utilize a common tool such as forceps, or to make a custom tool as part of the expander, so as to create a removable engagement element and remainder of expander device as this would decrease contamination possibilities relative to the user manipulating the device with his hands.

As per claim 13/(11,12), Fujikura describes a method of mounting a resilient outer tubular article over an elongate article according to any of claims 11-12, wherein said disengagement of said engagement element from said at least one resilient portion includes sliding said engagement element relative to said at least one resilient portion (FIG. 4D, para[0048]: Note device must be slid out).

-----Please See Continuation Sheet-----

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IL 09/00322

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

-----Box V.2. Citations and explanations-----

Claims 1-3 lack an inventive step under PCT Article 33(3) as being obvious over Fujikura in view of US 4,646,988 A to (Campbell).

As per claim 1, Fujikura describes an expander for mounting a resilient outer tubular article over an elongate article (para[0002]) comprising:

a chassis element (116, FIG. 9) having associated therewith at least one outwardly movable element (118) which is selectably engageable with at least a portion of said resilient outer tubular article (112; para[0072], FIGS. 14-15);

a driver (14, FIGS. 4) which is movable with respect to said chassis element and is operative to selectably engage said at least one outwardly movable element, when said outwardly movable element is in engagement with said at least a portion of said resilient outer tubular article, for producing corresponding outward motion and outward expansion thereof (para[0047], FIGS. 4, 14-15).

But fails to describe an engagement element, associated with said driver, for insertion into said at least a portion of said resilient outer tubular article upon expansion thereof by operation of said driver, said engagement element being configured to accommodate at least a portion of said elongate article.

However, Campbell describes an outer tubular article to be mounted around a elongate article (Abstract) in which an engagement element (35, FIGS. 1, 3; col 3, ln 25-36) associated with the driver (10) for insertion into said at least a portion of said outer tubular article upon expansion thereof by operation of said driver (FIGS. 1,3), said engagement element being configured to accommodate at least a portion of said elongate article (11; col 3, ln 37-50).

It would have been obvious to one skilled in the art to implement a separate drive member with an engagement element for engaging the elongate tubular member as described by Campbell on the device of Fujikura so as to allow the elongate member to be pulled into the resilient article, as this gripping of the elongate member frees up a user hand and thus allows for operation by a single user.

As per claim 2, Fujikura and Campbell describe an expander according to claim 1. Campbell further describes and also comprising resilient outer tubular article disengagement functionality operative for disengagement of said at least a portion of said resilient outer tubular article from said engagement element (col 2, ln 59 - col 3, ln 24).

As per claim 3, Fujikura and Campbell describe an expander according to claim 1 or claim 2, and Campbell further describes and wherein said disengagement functionality is associated with said chassis element (col 2, ln 59 - col 3, ln 24; FIGS. 1, 3).

Claims 1-3, 10-12 and 13/(10-12) have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.